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Tristan C. Collins* (tcollins@math.columbia.edu) and **Gabor Szekelyhidi**. *K-Semistability for Sasakian manifolds*.

We will discuss an algebraic notion of stability related to existence of constant scalar curvature Sasakian metrics, which extends the notion of K-stability introduced by Donaldson for projective varieties. Time permitting we will give some examples of Sasakian manifolds not admitting Sasaki-Einstein metrics by exhibiting concrete algebraic obstructions. (Received February 11, 2014)